

## BIBLIOGRAPHY OF THE BOTANICAL WRITINGS OF EDWARD LEE GREENE

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While cataloging the library of the late Dr. Edward Lee Greene,<sup>1</sup> which is now in the possession of the University of Notre Dame, Notre Dame, Indiana, it was found feasible to compile the following bibliography. Since this has not been done previously, it is herewith submitted to botanists in the hope that it may prove of assistance. The arrangement is chronological.

Most of the writings of Dr. Edward Lee Greene were published in journals initiated and edited by himself. The first of these, *Pittonia, a series of papers relating to botany and botanists*, appeared February 15, 1887, and ran through five volumes, the last number being issued September 9, 1905. Occasionally, articles by others appeared in the pages of *Pittonia*, but by far the larger part of the journal is from Greene's pen. *Erythea, a journal of botany, West American and general*, edited by Willis Linn Jepson and others of the Department of Botany, University of California, first appeared January 2, 1893. For two years Greene contributed freely to *Erythea*, then occasionally in 1896 and 1897. *Leaflets of botanical observation and criticism* consists of two volumes written entirely by Greene. The pages were published irregularly from November 24, 1903, to November 6, 1912. Of the journals initiated by Dr. Greene the last was *Cybele Columbiana, a series of studies in botany, chiefly North American*. Only volume I, number 1, was published. Issued in December, 1914, it contained four papers, three of which were by Greene. Of this he said on page one of the explanatory note, "Contemplating the inauguration of yet another series of botanical articles, one in which I intend to make record more fully than I did in *Pittonia*, or in the *Leaflets*, of botanical observations made out of doors, I have chosen the title given above."

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<sup>1</sup> [Biographical or critical articles on Edward Lee Greene: The Catholic Who's Who in America p. 256. 1911; Who's Who in America 8: 851. 1912; Torrey 15: 249-250. 1915 (short biographical note); Science 42: 722. 1915 (notice of his death); Bot. Gaz. 61: 70-72. 1916 (short biographical note and appreciation of his work by J. N. Rose, Smithsonian Institution, Washington, D. C.); Torrey 16: 151-175. 1916. The botanical work of Edward Lee Greene (paper prepared for presentation before the Botanical Society of Washington by Harley Harris Bartlett); Am. Midland Nat. 4: 335-338. 1916 (eulogy with very little biographical data); Newman Hall Review 1: 24-29. 1918. Edward Lee Greene, the man and the botanist. By Willis Linn Jepson; Contr. West. Bot. no. 15. pp. 25-27. 1929.—H. L. M.]

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266. Some Mexican *Eupatoriaceae*. *Pittonia* 3: 31-32.
267. Distribution of *Rhamnus* in America. I. *Erythea* 4: 83-86.
268. Critical notes on certain violets. *Pittonia* 3: 33-42.
269. Studies in the *Compositae*. III. *Pittonia* 3: 43-63.
270. New or noteworthy species. XVI. *Pittonia* 3: 86-90.
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272. Distribution of *Rhamnus* in North America. II. *Erythea* 4: 133-136.
273. Two new *Cruciferae*. *Erythea* 4: 173-174.
274. New or noteworthy species. XVII. *Pittonia* 3: 91-116.
275. Studies in the *Cruciferae*. I. *Pittonia* 3: 117-138.
276. *Stenophragma virgatum*. *Pittonia* 3: 138.
277. Remarks on acaulescent violets. *Pittonia* 3: 139-145.
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284. Studies in the *Compositae*. V. *Pittonia* 3: 172-185.
285. Corrections in nomenclature. I. *Pittonia* 3: 186-188.
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294. On the classification of asclepiads. *Pittonia* 3: 231-238.  
 295. The genus *Chamaecrista*. *Pittonia* 3: 238-243.  
 296. Studies in the Compositae. VI. *Pittonia* 3: 243-246.  
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 298. Studies in the Cruciferae. II. *Pittonia* 3: 252-254.  
 299. *Iodanthus dentatus*. *Pittonia* 3: 254.  
 300. Notes on violets. *Pittonia* 3: 254-256.

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 303. Studies in the Compositae. VII. *Pittonia* 3: 264-298.  
 304. New Compositae from New Mexico. *Bull. Torr. Bot. Club* 25: 117-124.  
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 306. New or noteworthy species. XXII. *Pittonia* 3: 306-311.  
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 308. Critical notes on *Antennaria*. *Pittonia* 3: 318-323.  
 309. The genera *Polycodium* and *Batodendron*. *Pittonia* 3: 323-326.  
 310. New species of *Convolvulus*. *Pittonia* 3: 326-333.  
 311. Some Canadian violets. *Pittonia* 3: 333-338.  
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 315. A fascicle of new violets. *Pittonia* 4: 3-9.  
 316. New western species of *Rosa*. *Pittonia* 4: 10-14.  
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 318. Notes on *Machaeranthera*. *Pittonia* 4: 22-25.  
 319. Early specific types in *Chamaecrista*. *Pittonia* 4: 25-32.  
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 322. Neglected generic types. I. *Pittonia* 4: 45-51.  
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 325. Some western species of *Xanthium*. *Pittonia* 4: 58-63.  
 326. Four new violets. *Pittonia* 4: 64-67.  
 327. New or noteworthy species. XXIV [XXV]. *Pittonia* 4: 68-72.  
 328. Segregates of *Caltha leptosepala*. *Pittonia* 4: 73-81.  
 329. New species of *Antennaria*. *Pittonia* 4: 81-85.  
 330. West American *Asperifoliae*. IV. *Pittonia* 4: 86-97.  
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 337. Notes on violets. *Pittonia* 4: 139-142.  
 338. Some new or critical *Ranunculi*. *Pittonia* 4: 142-146.  
 339. New or noteworthy species. XXVII. *Pittonia* 4: 146-158.  
 340. A fascicle of new *arnicas*. *Pittonia* 4: 159-174.  
 341. A decade of new *Gentianaceae*. *Pittonia* 4: 180-186.  
 342. Studies in the *Cruciferae*. III. *Pittonia* 4: 187-207.  
 343. Neglected generic types. II. *Pittonia* 4: 207-212.  
 344. Some Rocky Mountain asters. *Pittonia* 4: 212-224.  
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 359. New species of *Laciniaria*. *Pittonia* 4: 315-318.  
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- 384. *Platystemon* and its allies. *Pittonia* 5: 139-194.
- 385. Three new *Ranunculi*. *Pittonia* 5: 194-197.
- 386. New species of *Polygonum*. *Pittonia* 5: 197-203.
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555. Five dwarf lupines. *Muhlenbergia* 8: 117-119.
556. *Carolus Linnaeus*; with an introduction by Barton Warren Evermann (Philadelphia, Christopher Sower Co.) pp. 1-91.

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557. Certain violet names. *Am. Midland Nat.* 3: 79-85.

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## GROWTH HABITS OF BARREL CACTI

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Most desert perennials while in the seedling stage grow in definitely mesophytic situations. As they mature, however, most of them develop under xerophytic conditions, and seem to carry little or no impress of the more humid conditions requisite for germination and early survival. The barrel cacti, or bisnagas (*Echinocactus Wislizeni* Engelm.), as observed within a fifty mile radius of Tucson, Arizona, are striking examples of plants which, though fully exposed to the arid climate when mature, still retain the impress of seedling requirements. Indeed, the excessive development of this early tendency often results in the death of the plants.

For those unacquainted with these interesting cacti a brief description is given. A mature bisnaga is characteristically barrel-shaped and one to four feet high. Individuals much taller than four feet are uncommon, although they may occasionally grow to twice this height. As shown in text figure 1, mature bisnagas are strongly ribbed by a series of vertical ridges which extend the length of the plant and which converge at the growing point at the top. Groups of spines occur at rather regular intervals on each rib. The four central spines of each group are very heavy and strongly hooked downward. A dense circle of orange-red flowers, which persist until late in summer, appears near the center of the top during the summer rains. The yellow,